

## **TERRESTRIAL ECOLOGY WITH JAXA'S NEW SATELLITE MISSION "GCOM-C/SGLI"**

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### **ABSTRACT:**

The interaction between environment and ecosystem is so complicated that we need combination of various different approaches for understanding it. JAXA (Japan Aerospace Exploration Agency)'s new satellite sensor called GCOM-C/SGLI, which is to be launched in 2014, has a potential utility for bridging global terrestrial ecology and environmental change, on a basis of collaboration among the remote sensing scientists, the field ecologists, and the numerical modelers. We are now constructing a multi-disciplinary group consisting of JAXA, JapanFlux (the field-site network for study of CO<sub>2</sub>, water, and energy flux), JaLTER (Japan Long Term Ecological Research Network; a field-site network for long-term ecology study including terrestrial and coastal ecosystems), and JAMSTEC (Japan Agency for Marine-Earth Science and Technology). Each of the four communities and organizations has its own counterparts in the world, hence this group aims to propose not "Japan-only" but internationally scalable framework for ecology study with satellite remote sensing. For the moment, this group aims at providing high-quality and integrated field ecology data for satellite ecological study by organizing the "super-sites."